

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office

Address: COMMISSIONER OF	PATENTS AND TRADEMARK
Washington, D.C. 202	31
www.uspto.gov	/

FIRST NAMED INVENTOR ATTORNEY DOCKET NO / CONFIRMATION NO. APPLICATION NO. FILING DATE TOMOYOSHI KUSHIDA 104361 09/435,766 11/08/1999 25944 7590 06/03/2002 OLIFF & BERRIDGE, PLC EXAMINER P.O. BOX 19928 LOKE, STEVEN HO YIN ALEXANDRIA, VA 22320 ART UNIT PAPER NUMBER 2811

DATE MAILED: 06/03/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)	
	09/435,766	KUSHIDA, TOMOYOSHI	
Office Action Summary	Examiner	Art Unit	
	Steven Loke	2811	
The MAILING DATE of this communication appears on the cover sh t with th correspondence address Period f r Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status			
1) Responsive to communication(s) filed on 17 N	<u>lay 2002</u> .		
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims			
4)⊠ Claim(s) <u>1,4,12 and 20-30</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5)⊠ Claim(s) <u>1,4,20 and 21</u> is/are allowed.			
6)⊠ Claim(s) <u>12, 22-30</u> is/are rejected.			
7) ☐ Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.			
12)☐ The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).			
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)	
U.S. Patent and Trademark Office		· · · · · · · · · · · · · · · · · · ·	

Application/Control Number: 09/435,766

Art Unit: 2811

1. Claims 12 and 22-30 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Figs. 10A and 10B disclose the source region is isolated from the insulation film. However, figs. 10A and 10B never discloses the impurity concentration of the channel region is equal to or less than an impurity concentration in the drift region, and a depletion layer forms over the entire channel region sandwiched between the gate region when a zero bias is applied to the gate region as claimed in claim 12. The specification never discloses the embodiment of figs. 10A and 10B can be combined with the embodiment of figs. 9A and 9B.

The specification never discloses the claimed structure of each of claims 22-29 in the claimed structure of claim 12.

The specification never discloses the device structure of claim 30.

2. Claims 28 and 29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 28, line 4, "a distance of the gate region" is unclear whether it is being referred to a distance between two portions of the gate region.

In claim 29, line 4, "a space of the gate region" is unclear whether it is being referred to a distance between two portions of the gate region.

3. Claims 1, 4, 20 and 21 are allowed.

Application/Control Number: 09/435,766 Page 3

Art Unit: 2811

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (703) 308-4920. The examiner can normally be reached on 7:50 am to 5:20 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

sl June 2, 2002 Steven Love
Steven Loke